BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0194-1 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
YEAR				Dual-Fuel:	PROCEDURE	CLASS 1	2TWC, SFI, 2HO2S				
2008	8BYTH08.1	8BYTH08.1P23 8.1		LPG or Gasoline	Otto	HDO	21010.112022				
	Y ENGINE'S IDLE			ADDI	TIONAL IDLE EN	ISSIONS CON	ITROL 5				
	N/A		N/A								
ENGINE	(L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)				
8.1	(-)			GM8.1L / *	1 (332 LPG / 3	17 Gasoline)				
		~				-"					
L=liter; hp 1 CNG/L 2 L/M/H 3 ECS=e up catalyst TBI=throttl super char control mo ESS=e (per 13 CC	p=horsepower, kw=k, NG=compressed/iqu HDD=light/medium/h emission control systet; DPF=diesel particule body fuel injection; rger; CAC=charge ai adule; EM=engine mo emission shutdown system CR 1956.8(a)(6)(D); 1	ilowatt; hi efied natu eavy heav em; TWC/ blate filter; SFI/MFI= r cooler; I odification; em (per 13 Exempt=6	r=hour; iral gas; LPG=liquef ny-duty diesel; UB=u OC=three-way/oxidi; PTOX=periodic trap- rsequential/multi port EGR / EGR-C=exha; ; 2 {prefix}=parallel; 3 CCR 1956.8(a)(6)(; exempted per 13 CCI;	ied petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto ding catalyst; NAC=NOx adsorption pixidizer; HO2S/025=heated/ox, fuel injection; DGI=driered gasolitist gas recirculation / cooled EGR (2) (suffix)=in series;	anol fuel; MF=mul; con catalyst; SCR-L ygen sensor; HAF ne injection; GCAR ; PAIR/AIR=pulse: CCR 1956.8(a)(6)(G fuel systems; N/A	if fuel a.k.a. BF J / SCR-N=select S/AFS=heated/a B=gaseous car s/secondary air C); APS =international applicable	R 86.abc=Title 40, Code of Federal Regulation in the properties of	; WU (prefix) =warm- ar oxygen sensor); ion; TC/SC=turbo/ CM=engine/powertrain			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	*	*	+	*	*	*	14.4 (14.4)	*	0.01 (0.01)	*	0.01 (0.01)	*
FEL	0.15 (0.15)	*	0.32 (0.32)	*	0.47 (0.47)	*	*	*	*	*	*	•
CERT	0.13	*	0.27 (0.16)	*	0.40 (0.29)	*	4.1 (2.7)	•	0.001 (0.001)	*	0.001 (0.002)	*
NTE	*		*			*		*	·		*	

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Npt-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order. Executive Order A-330-0194 dated May 1, 2008 is hereby superseded by this Executive Order.

Executed at El Monte, California on this ______

___ day of May 2008.

Annette Hebert, Chief

Mobile Source Operations Division